				UTA	H OIL	AND GAS CONSI	ERVATION C	OMMISSIOI	N			*	
REMARKS:	WELL LOG	ELE	CTRIC LOGS	FILE_	X	WATER SANDS	LOCAT	ON INSPECTE	D GAS	SUB.	REPORT/abd.		
	· .						,						
	** **								•				
DATE FILED	3-15-82												
LAND: FEE &			LEASE NO.			PUE	BLIC LEASE NO.	U-258	888		INDIAN		
DRILLING APP	PROVED: 4-6	-82							•				
SPUDDED IN:													
COMPLETED:			PUT TO PE	RODUCING:									
INITIAL PROD	DUCTION:								•				
GRAVITY A.P.	l.												
GOR:										• /	·•		
PRODUCING	ZONES:												
TOTAL DEPT	H:												
WELL ELEVAT													
DATE ABAND	ONED: 8./	8.83	LA w	ell ne	we	deithd	·						
FIELD: UN	IDESIGNA	<del>TED 3/</del> 2	<del>r</del> Bar	<u> </u>	80								
UNIT:													
	GRAND												
WELL NO.	HAYS US.								-019-3				
LOCATION	2477	F	T. FROM (N) XXII	NE,	62	. <b>7</b> F	т. FROM <b>ЖХ</b> (W)	LINE.	SW N	W	1/4 — 1/4 SEC.	1	-
	·												
TWP.	RGE.	SEC.	OPERATOR				TWP.	RGE.	SEC.	OPERATOR			
							17\$	25E	1	TENNECO	OIL COMA	PMV	

Permit No.

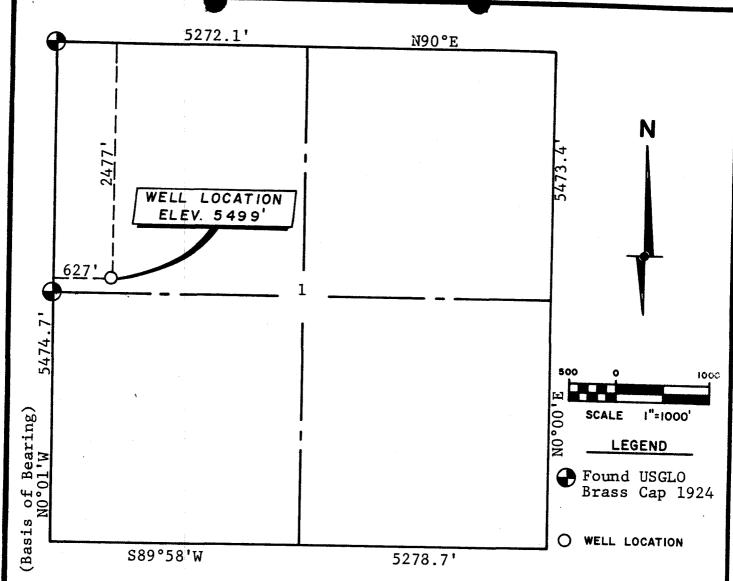
Auproved by...

Conditions of approval, if any:

### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL GAS, AND MINING

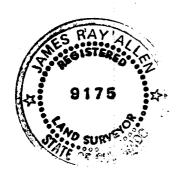
SUBMIT IN LICATE\*
(Other instructions on reverse side)

5. Lease Designation and Serial No. DIVISION OF OIL, GAS, AND MINING U-25888 6. If Indian. Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK la. Type of Work 7. Unit Agreement Name PLUG BACK DEEPEN [ DRILL X h. Type of Well s. Farm or Lease Name Multiple Zone Single Zone 0il □ Gas Well Other Hays USA 2. Name of Operator 9. Well No. Tenneco 0il Company 1-5 5. Address of Operator 19. Field and Pool, or Wildcat P.O. Box 3249 Englewood, CO 80155 -San Arroyo Un 4. Location of Well (Report location clearly and in accordance with any State requirements.\*)
At surface 11. Sec., T., R., M., or Bik. 2477' FNL 627' FWL SWNW At proposed prod. zone Sec. 1, T17S R25E same as above 12. County or Parrish 13. State 14. Distance in miles and direction from nearest town or post office Utah Grand 20 miles NNW of Mack, Colorado 17. No. of acres assigned to this well 16. No. of acres in lease 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, line, if any) 263.52 251.78 20. Rotary or cable tools Distance from proposed locations to nearest well, drilling, completed, or applied for, on this lease, ft. Rotary 22. Approx. date work will start\* 21. Elevations (Show whether DF, RT, GR, etc.) March 1982 5499' around 23 PROPOSED CASING AND CEMENTING PROGRAM Quantity of Cement Setting Depth Weight per Foot Size of Hole Size of Casing + 250' Circ cmt to surface 9-5/8" 12-1/4" 36# + 4140 Circ sufficient volume 11.6# 7-7/8" to cover productive zones The gas is dedicated See attached drilling procedures MAR 1 5 1982 **DIVISION OF** OIL. GAS & MINING IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 24. 3/9/82 Title Production Analyst (This space for Federal or State office use)



#### WELL LOCATION

2477' S.N.L. - 627' E.W.L. Sec. 1, T17S, R25E, S.L.B.M. Grand County, Utah



#### SURVEYOR'S

#### CERTIFICATE

i, James R. Allen , a registered of Colorado, do hereby certify supervision and that this

> <u>12/16/8/</u> Colo. LS 9175 James R. Allen

58 Chapter 22-21 (b) Utah LS Pending Title

ARMSTRONG ASSOCIATES, INC. ENGINEERS • SURVEYS • U.S. MINERAL SURVEYORS 861 Rood Avenue-Grand Junction, Colorado 81501-(303) 245-3861 SCALE | = 1000 Tenneco Oil

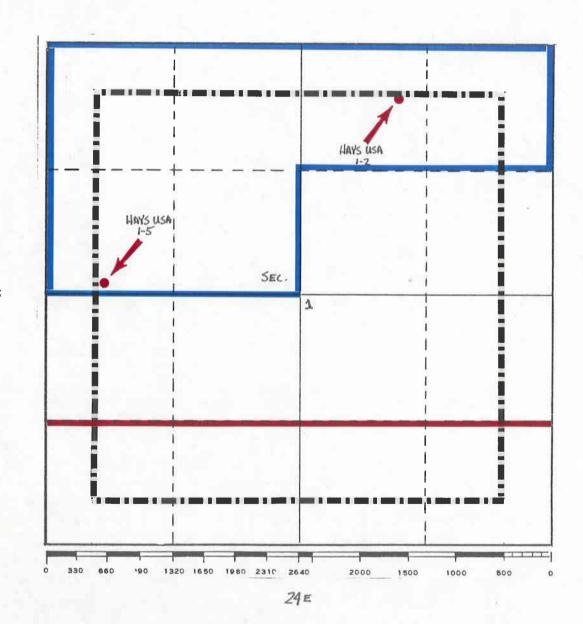


Hays 1-5

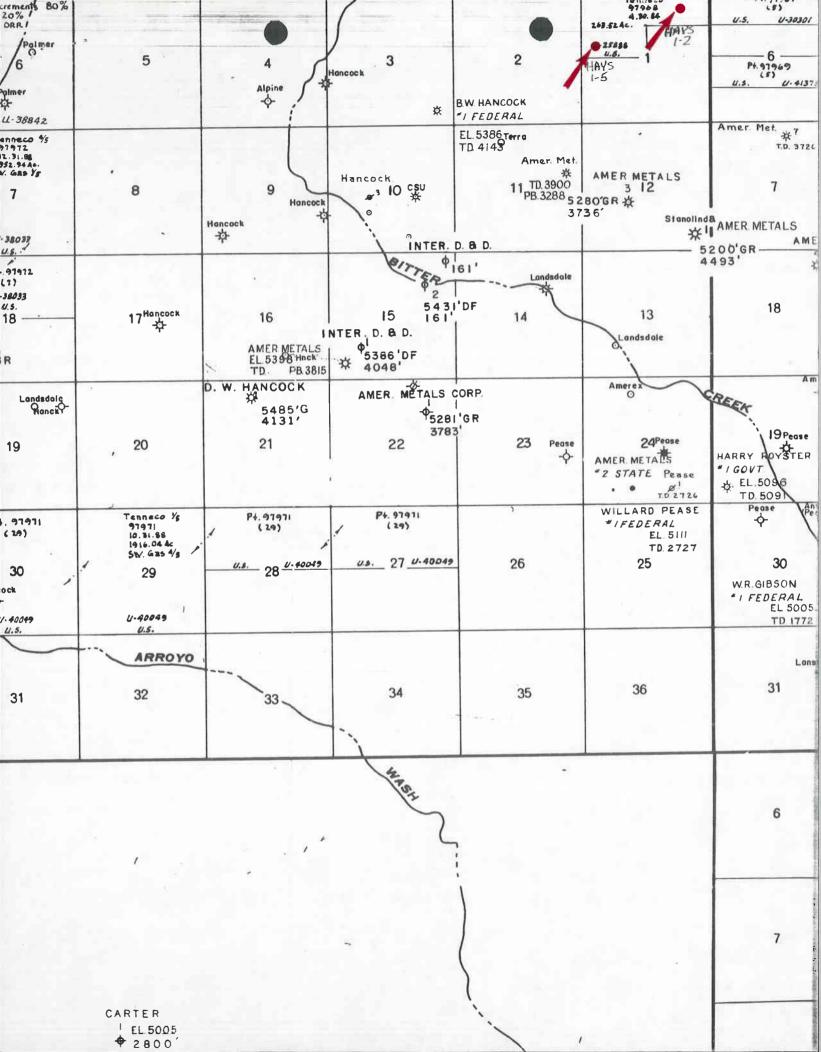
JOB NUMBER FIGURE 1 813692

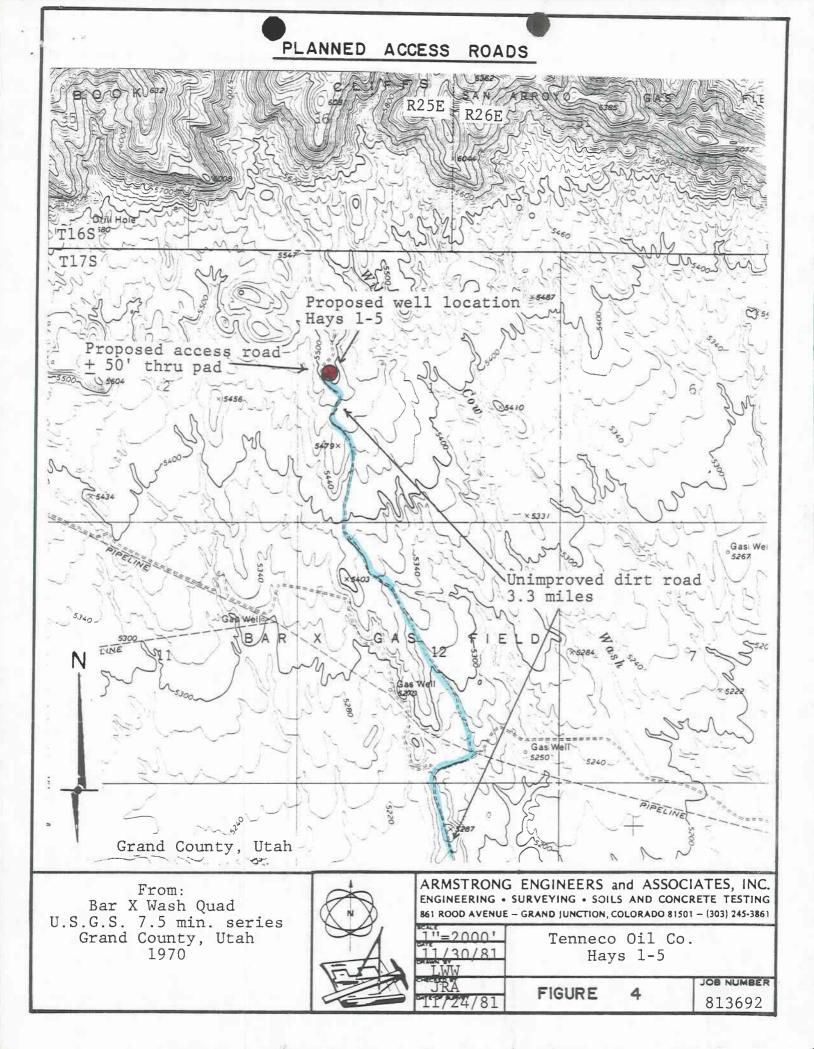
= NORTHERN BAR-X UNIT BOUNDARY

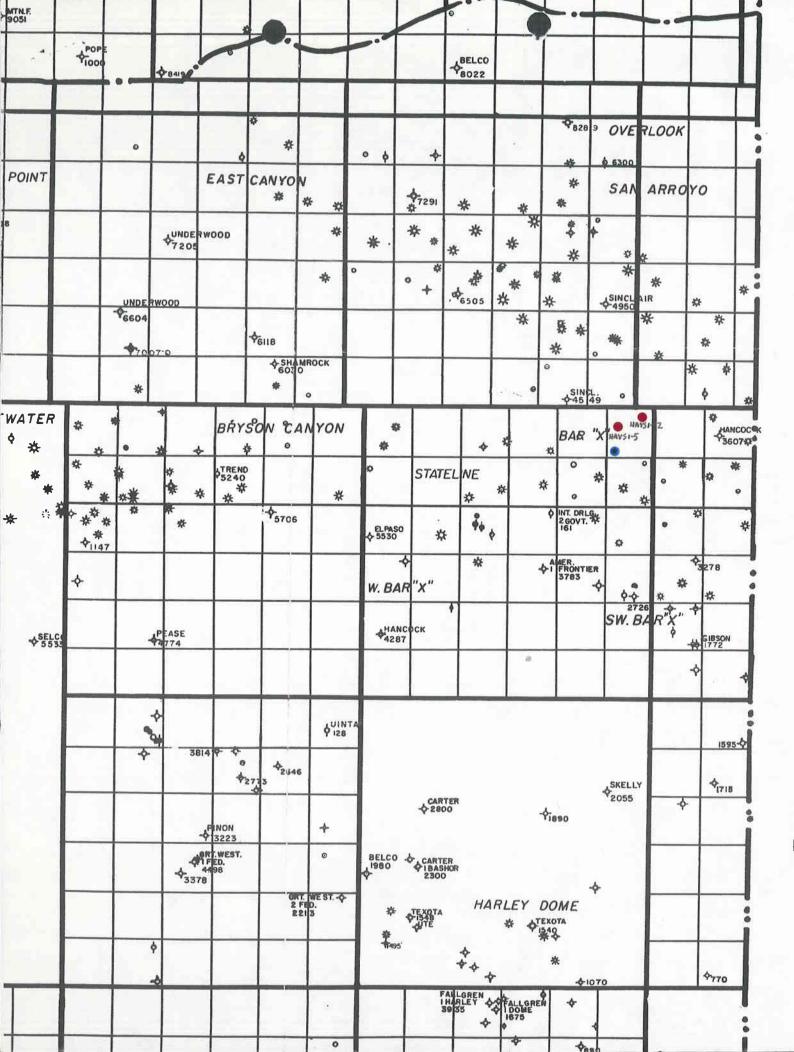
TENNECO'S ACREAGE WITHIN SECTION



175







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15 S

T 17 S

T 18

### \*\* FILE NOTATIONS \*\*

DATE: 3-76-82
OPERATOR: <u>Jeannes</u> Oil Go.
WELL NO: Hays USA 1-5
Location: Sec. / T. 125 R. 25E County: Sank
File Prepared: [7] Entered on N.I.D: [7]
Card Indexed: [ Completion Sheet: [
API Number <u>43-019-30941</u>
CHECKED BY:
Petroleum Engineer:
Director: OK vo per Rule (3()
Administrative Aide: (a) per lule (-3(c)
woo were in owner gas well.
APPROVAL LETTER:
Bond Required: / Survey Plat Required: / /
Order No O.K. Rule C-3
Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site
Lease Designation (Fel.) Plotted on Map
Approval Letter Written
Hot Line P.I.

### Tenneco Oil Exploration and Production

A Tenneco Company

Western Rocky Mountain Division P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800

Delivery Address: 6061 South Willow Drive Englewood, Colorado

March 17, 1982





DIVISION OF OIL, GAS & MINING

Attn: Clean B. Feight

1588 West North Temple

Salt Lake City, UT 84116

Division of Oil, Gas and Mining

State of Utah

RE: Exception of Spacing Requirements to Hays USA 1-5, SW/NW Sec. 1, T17S R25E, Grand County, UT

Dear Sir:

Pursuant to Rule C-3, c. 1 and 2 of the State of Utah Regulations and Rules of the Oil and Gas Conservation Act, Tenneco hereby applies for an exception to the spacing requirements for the above referenced well.

Due to geological reasons, e.g., the proximity of a producing gas well in the SW/SW quarter and other drainage factors, this location is less than the required 4960' from another proposed location, the Hays USA 1-2, NW/NW Sec. 1, T17S R25E, Grand County, Utah.

Enclosed find a topographic sheet and lease ownership map indicating that Tenneco is the owner of all oil and gas leases within 660' of proposed location.

Please let us know at your earliest convenience the status of this request.

Yours truly,

TENNECO OIL COMPANY

Don H. Morrison Production Analyst

DHM: jt

cc: Minerals Management Service Salt Lake City

### Tenneco Oil Exploration and Production

A Tennēco Company

Western Rocky Mountain Division P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800

Delivery Address: 6061 South Willow Drive Englewood, Colorado

April 1, 1982



DIVISION OF OIL, GAS & MINING

State of Utah Natural Resources and Energy Division of Oil, Gas and Mining 1636 West North Temple Salt Lake City, UT 84111

Attn: Cleon B. Feight

RE: Spacing Requirements for the Hays USA 1-5 SW/NW Sec. 1, T17S R25E, Grand County Utah

Dear Sir:

Some information has come to light regarding the reasons for spacing the Hays USA 1-5 and Hays USA 1-2 the way we did. Please see attached drawing of Section 1.

Due to the northern boundary of the Bar X Unit, Cause #4 dated December 5, 1956, ordered an irregular spacing unit of 503.52 acres. At one time, Tenneco had wanted to establish two stand up spacing units of 251.76 acres each.

At this time, however, Tenneco respectfully requests that your office disregard the application for permit to drill the Hays USA 1-2 so that we may proceed with plans to drill the Hays USA 1-5. Please return our application as Tenneco plans at a future date to pursue the Hays USA 1-2 location.

If we can be of any additional help in this matter, please contact this office.

Very truly yours,

TENNECO OIL COMPANY

Don H. Morrison
Production Analyst

DHM:jt

Attachment

cc: MMS, Salt Lake City Ken Macho Mike Decker Jesse Blackmon April 6, 1982

Tenneco Oil Company P. O. Box 3249 Hanvewoodol6olo. 80155

RE: Well No. Hays USA #1-5, Sec. 1, T. 17S, R. 25E, Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, this is conditional upon the application for permit to drill the Hays USA #1-2 being withdrawn at this time.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT Office: 533-5771 Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30941.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight Director

CBF/db CC: Minerals Management Service Enclosure

### STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

(Other instalions on reverse side)

MINERALS MANAGEMENT
SERVICE

5. LONG L'ONS OPERATIONS NO.

					U-ZJOMOLITED
APPLICATION	FOR PERMIT	TO DRILL, DE	EPEN, OR PLU	G BACK	6. If Indian, Allottee or Tribe Name
a. Type of Work DRIL	LX	DEEPEN	PLUC	BACK 🗌	7. Unit Agreement Name SALT LAKE CITY, UTAH
b. Type of Well Oil Ga Well We Name of Operator	other		Single D	Multiple ,	8. Farm or Lease Name - Hays USA
Tenneco Oil (	Company	:		· · · · · · · · · · · · · · · · · · ·	9. Well No.
	9 Englewood, C				10. Field and Pool, or Wildcat San Arroyo
. Location of Well (Repo At surface	rt location clearly and in 2477 FNL 627		State requirements.•1		11. Sec., T., R., M., or Bik. and Survey or Area
At proposed prod. zone	same as above	• ••= :			Sec. 1, T17S R25E
(. Distance in miles and	direction from nearest to	wn or post office"			12. County or Parrish 13. State
	NW of Mack, Col				Grand Utah
5. Distance from propose location to nearest	તે•		6. No. of acres in lease		of acres assigned is well
property or lease line, (Also to nearest drig. )	ft. ine. if any) 6271		263.52		251.78
8. Distance from propose to nearest well, drilling	d location* g, completed,		9. Proposed depth	20. Rota	ry or cable tools
or applied for, on this	lease, ft.	:	4140'		Rotary  22. Approx. date work will start*
1. Elevations (Show wheth	her DF, RT, GR, etc.)				•
5499' gro	und				March 1982
3.	<u> </u>	PROPOSED CASING	AND CEMENTING PRO	OGRAM	
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	h	Quantity of Cement
12-1/4"	9-5/8"	36#	+ 250'		Circ cmt to surface
7-7/8"	4-1/2"	11.6#	+ 4140	ì	Circ sufficient volume
_ / // 0	, _				to cover productive zo
	i.	;			•

The gas is dedicated

See attached drilling procedur



DIVISION OF OIL, GAS & MINING

ctive zone. If proposal is to drill or deepen directions eventer program, if any.	: If proposal is to deepen or plug back, give data on prese ally, give pertinent data on subsurface locations and measur	red and true vertical depths. Give blow
Signed Donal Alerrison	Title Production Analyst	Date 3/9/82
(This space for Federal or State office use)		
Permit No.	Approval Date	
August by bad Coller	E. W. Guynn  Title District Oil & Gas Supervisor	MAY 2 1 1982
Approved by Conditions of approval, if any:	NDITIONS OF APPROVAL ATTAC	CHED

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

Identification No. 2/4-82

United States Department of the Interior
Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3884

NEPA CATEGORICAL EXCLUSION REVIEW ♀ ♀ 를
PROJECT IDENTIFICATION
Operator Jane Oil Campana
Project Type 625-Level - Development 5 8 5 7 7 8
Project Location 247) FML 627 Feal Sec 1 7175 125 =
Well No. 4/-5 Lease No. 44-25-888
Date Project Submitted 3-11-82
FIELD INSPECTION Date 5-5-82
Field Inspection Participants
Elmen Rucan Elm-monb
Leuin Cleary
Upn morrison Tenneso oit
CARY CHARL 11 "
Dallas Coalley Galley Const
I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.
Date Prepared  Environmental Scientist
I concur
MAY 17 1982 W. GUYNN DISTRICT OIL & GAS SUPERVI

Date

District Supervisor

				•					
riteria DM 2.3.A	Federa Corre- spondence (date)	l/State Age Phone check (date)	ncy Meeting (date)	local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
olic health I safety	5-13-8Z						ک	5-5-82	i
ique charac- ristics							ک	2H.G	
viromentall <b>y</b> ntroversial	1		•				2	24,6	
scertain and sknown risks							2	246	-1
stablishes recedents	The Assessment						2	246	
unulatively ignificant	17.00	44 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -					Siz	246	
ational Register				•					
indangered/ threatened species	1				-	•			
Violate Federal, State, local, tribal low	1					·			

Recommended April phons of Terricos of John South of Me Mount Sunsing Z Opendor will Adhere to Blin Surveye Sipulsonors. 31 of Jopson Will be street on the Perstage of het officer to Insure Horsh Coges will be used Tousland of Extensivil be cut and piled on the Three Track to other Landins.

### CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

- 1. Surface Management Agency Input
- Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
- Lease Stipulations/Terms
- 4. Application Permit to Drill
- 5. Operator Correspondence
- 6. Field Observation
- Private Rehabilitation Agreement



### United States Department of the Interior

OIL & CAS OPERATIONS

3109 (U-50133)(U-068)

IN REPLY REFER TO

BUREAU OF LAND MANAGEMENTIVED Moab District Grand Resource Area AY 17 1987 P.O. Box M SALT LAKE CITY, UTAH Moab, Utah 84532

MAY 1 1 1982

#### Memorandum

To:

Minerals Management Service

P.O. Box 1037 Vernal, UT 84078

From:

Area Manager, Grand

Subject:

Tenneco Oil Company (APD)

Hays USA 1-5; Lease U-50133

SW/NW Sec. 1, T. 17 S., R. 25 E., SLB&M

Grand County, UT

On May 6, 1982 a representative from this office met with Cody Hansen, MMS, and Don H. Morrison agent of the Tenneco Oil Company for an inspection of the above referenced location. Subject to the attached conditions and written approval from MMS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Tenneco Oil Company.

Enclosures (3)

1-Reclamation Procedure

2-Seed Mixture

3-Suggested Colors - Production Facilities

RECEIVED Minerals Manner and Semice Vernal, Utah

Company: Tenneco Oil Co.

Well: Hays USA 1-5

Section: 1, T. 17 S., R. 25 E.

# ADDITIONS TO THE MULTIPOINT SURFACE USE PLAN AND RECLAMATION PROCEDURES

#### CONSTRUCTION:

- 1. The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) 48 hours prior to beginning any work on public land.
- 2. The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
- 3. Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
- 4. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
- 5. Improvement to the existing road will not be necessary. The total disturbed width allowed will be as is. The allowable travel surface will be as is.

New road construction will be limited to an allowable travel surface width of as is. For construction design and survey refer to Class II road standards attachment.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Surfacing material will not be placed on the access road or location without prior BLM approval.

- 6. Location: The pad will be constructed as designed in your 13 Point Plan. Trees (pinyon & juniper) removed from the location will be stockpiled behind the topsoils on the east side of the pad. Existing road will be used as part of the pad and will be passable by vehicle as much as possible.
- 7. The top 12 inches of soil material will be removed from the location and windrowed separate from the trees on the east side of the location.
- 8. The reserve pit will not be lined with commercial bentonite or plastic sufficient to prevent seepage. Keyway. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8 inch lifts, machinery compacted, and sufficiently wide for equipment to pass over. An area 1 1.5 cat blades wide will be cleared to mineral soils behind the pit(s) for fire protection.

#### PRODUCTION

- 1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. All of the stockpiled topsoil will be used in reclaiming the unused areas.
- 2. All above-ground production facilities will be painted using the attached suggested colors.
- 3. The access will be to the design of a Class II road.
- 4. When any oil is produced that requires storage tanks be placed on the pad, they will be surrounded by 3 feet high soil berms to contain tank gallonage plus 10 per cent. The load valve will be kept inside the berm.

j

#### REHABILITATION

- Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash cage. Non-burnable debris will be hauled to a local town dump site.
- 2. The operator or his contractor will contact the Grand Resource Area BLM office in Moab, Utah, phone (801 259-6111), 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
- 3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal etc.) it contains must be removed from public lands.
- 4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
- The stockpiled topsoil will be evenly distributed over the disturbed area.
- 6. All disturbed areas will be scarified with the contour to a depth of 6 inches. Do not smooth pads out, leave a roughened surface.
- 7. Seed will be (broadcast/drilled) at a time to be specified by the BLM with the following seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover. Broadcast seed will be two times the pounds/acre on the enclosed seed list.
- 8. Waterbars will be used on all sloping surfaces as shown below:

<u>Grade</u>	Spacing
2%	200 ft. spacing
2-4%	100 ft. spacing
4-5%	75 ft. spacing
+5%	50 ft. spacing

9. After seeding is complete the stockpiled trees will be scattered evenly over the disturbed areas and walked down with a dozer.

#### SEED MIXTURE

Species		Rate
Grasses		lbs/ac.
Oryzopsis hymenoides Hilaria jamesii Elymus salinus	Indian rice grass Curley grass Salina wildrye	1 1 1
Forbs		
Sphaeralcea coccinea	Scarlet globemallow	1
Browse		
Atriplex canescens Ceretoides lanata	Four-wing saltbush Winterfat	1 1

Broadcast seed will be applied at two times the above rate.

Seed will be applied during the fall (Oct. - Dec.) of each year.



### United States Department of the Interior

#### BUREAU OF LAND MANAGEMENT

## SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

Cisco Desert and Flats below the Bookcliffs:

Dynasty Green

(Sears)

Tumbleweed

(Pratt & Lambert)

Desert Tan

-----

Sage Gray

(Pratt & Lambert)

Bookcliffs Region:

Sage Gray

(Pratt & Lambert)

Sea Life

(Pratt & Lambert)

Dynasty Green

(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

#### MINERALS MANAGEMENT SERVICE

HIHERALS MANAGEMENT SERVICE OIL & GAS OPERATIONS

FROM: STAFF GEOLOGIST, OIL & GAS, UNIT AGREEMENT SECTION, LAKEWOOD, CO
to: District Engineer, Oil & Gas, Grand Junction, CO Mar 22 1982
SUBJECT: APD MINERAL EVALUATION REPORT  LEASE NO. U-2588
OPERATOR: TENNECO OIL COMPANY WELL NO. 1-5
LOCATION: 2477 FNL, 627 FNL SW 1/4 NW 1/4 sec. 1, T. 175, R. 25E, SLM
GRAND County, UTAH
1. Stratigraphy:  Estimation tops by the operator appear reasonable, but could be 200-300' feet to deep.
2. Fresh Water:  Fresh/woolde water will probable not be encounted fresh would bet have sand coming formed in this well but have sand to will be drilled a contract of the hale will be drilled a our or our/mist.
3. Leasable Minerals:  None.
4. Potential Geologic Hazards: None anticipation by the operator.

6. References and Remarks: \* Protect any fresh water aquife a genetration.

Signature: Ronald E Dunnufson

5. Additional logs Needed:

Date: 3/18/82

#### ESTIMATED FORMATION TOPS

Mancos	Surface	
Frontier	3149'	(Gas)
Dakota Silt	3399'	(Gas)
Dakota Sand	3493'	(Gas)
Morrison	3711'	(Gas)
Salt Wash	3936'	(Gas)
TD	4140'	

- 1. No abnormal pressures, temperatures or H2S is anticipated on this hole.
- 2. Reserve pit shall be fenced on 3 sides during drilling operations in order to comply with BLM and USGS regulations.
- 3. Large volume of gas may be encountered in Upper Dakota, Cedar Mountain and Salt Wash Formations.

#### TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION 6061 S. WILLOW DRIVE ENGLEWOOD, COLORADO 80111

#### DRILLING PROCEDURE

DATE:

January 4, 1982

LEASE:

T.O.C. HAYS

WELL NO.: 1-5

LOCATION:

627' FWL, 2477' FNL Section 1, T17S, R25E Grand County, Utah

FIELD: San Arroyo

ELEVATION

54991

TOTAL DEPTH: 4140'

PROJECTED HORIZON: Morrison

SUBMITTED BY: Tom Dunning

APPROVED BY:

DATE: January 4, 1982

CC: Administration

Well File

Field File

#### DRILLING, CASING AND CEMENT PROGRAM

- 1. Set 250' of 9 5/8" casing to be used as surface casing. Cement with sufficient volume to circulate cement to the surface.
- 2. MIRURT
- 3. Nipple up casing spool, BOP's, rotating head, choke manifold. Pressure test BOP's manifold, etc. to 1000 psi for 15 minutes.
- 4. TIH and displace water is casing with air. Drill out shoe and dry up hole.
- 5. Drill 7 7/8" hole to T.D..
- 6. Log well as per G.E. department recommendations.
- 7. If well is productive, run 4 1/2", 11.6#, K-55, ST&C casing to T.D. Cement with sufficient volume to cover all possible productive zones.
- 8. If the well is non-productive, P & A as per Regulatory Agency specifications.

#### CASING PROGRAM

SURFACE:

250'

9 5/8", 36#, K-55, ST&C

PRODUCTION:

4140'

4 1/2", 11.6#, K-55, ST&C

#### MUD PROGRAM

0-2501

Spud mud. Viscosity as needed to clean hole.

250-4140'

Air or Air/Mist w/ 3% KCL.

NOTE:

Should the hole become wet or encounter large gas flow which require mud up, keep the weight as low as possible, vis as needed, and W.L.  $\pm$  6 cc. w/ 3% KCL.

#### **EVALUATION**

#### Cores and DST's:

NONE.

#### **Deviation Surveys**

0-250'

Every 100' unless hole conditions prohibit running the surveys. Maximum deviation at T.D. 1 .

250-4140

Every 500' or on trips. Maximum deviation 1 per 100'

or 4 at T.D

#### Samples:

One full bag every ten feet 3000' to T.D.

#### Logs:

Surface Hole - as specified by G.E. Department

Production Hole - as specified by G.E. Department.

#### BLOWOUT EQUIPMENT

- 1. Double ram hydraulic with pipe and blind rams operated by an accumulator.
- 2. Rotating head on air or air/mist holes.
- 3. Preventors must be checked for operation every 24 hours. This check  $\underline{\text{must be recorded}}$  on the IADC Drilling Report Sheet.

#### **REPORTS**

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 AM Monday thru Friday.

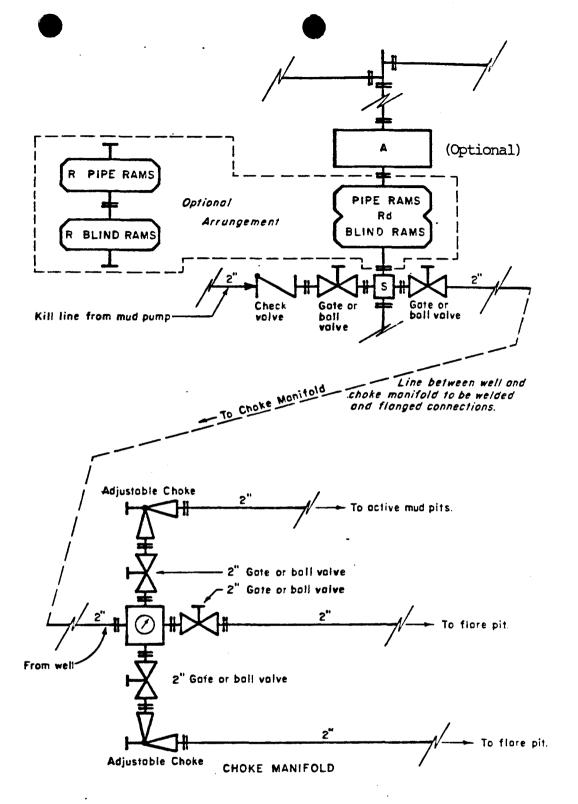
TENNECO OIL COMPANY
P.O. Box 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

#### OFFICE DIRECTORY

Charles R. Jenkins	740-4800	Ext. 605
Ted McAdam	740-4800	Ext. 307
Tom Dunning	740-4813	
Dale Kardash	740-4809	

In case of emergency or after hours call the following in the preferred order.

(1)	Tom Dunning Drilling Engineer	740-4813 797-2154		Office Home
(2)	Ted McAdam Senior Drilling Engineer Specialist	740-4800 978-0724	Ext. 307	Office Home
(3)	Charles R. Jenkins Division Drilling Engineer	740-4800 989-1737	Ext. 605	Office Home
(4)	Harry Hufft Division Production Manager	771-5257		Home



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram type preventer with two sets of rams.
- R Single ram type preventer with one set of rams.
- S Drilling spool with side outlet connections for choke and kill lines.
- A Annular type blowout preventer. (Optional)

#### ARRANGEMENT B

TENNECO OIL COMPANY ROCKY MOUNTAIN DIVISION

REQUIRED MINIMUM BLOWOUT PREVENTER AND CHOKE MANIFOLD

. MAGILL 10-26-79 EV

- 1. The geological name of the surface formation: Mancos
- 2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)

4. Proposed Casing Program:

(See Attached Drilling Procedure)

- 5. Blowout Preventors:
  - Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
- 6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

(See Attached Drilling Procedure.

- 7. Auxiliary Equipment:
  - a. Kelly cock will be in use at all times.
  - b. Stabbing valve to fit drill pipe will be present on floor at all times.
  - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
  - d. Floats at bits.
  - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
- 8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)

- 9. No abnormal pressures, temperatures or potential hazards such as H<sub>2</sub>S are expected to be encountered.
- 10. The drilling of this well will start approximately ( March 1982 ) and continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

#### I. EXISTING ROADS

- A. Proposed Well Site Location: See Exhibits 1 and 2
- B. Planned Access Route: See Exhibits 3 and 4
- C. Access Road Labelled: See Exhibt 4

- D. Not applicable, the proposed well is a development well.
- E. The existing roads are shows in Exhibits 3 and 4
- F. Existing Road Maintenance or Improvement: The existing road will not require improvement. However, this road, along with the new access road, may require occasional grading to return the road surface to a cross section necessary for proper drainage.

#### II. PLANNED ACCESS ROUTE

A. Route Location - See Exhibits 3 and 4 )

The planned new access route was selected to provide the shortest distance to the well site with acceptable grades from the main connector road. Temporary access will be built initially. If the facility is productive, the temporary road will be improved as follows:

- 1. Width: The average dirt width will be twenty feet. The average traveled surface width will be twenty feet. Road construction will be in accordance with typical roadways requested by the U. S. Bureau of Land Management.
- 2. Maximum Grades: Grades will be kept to a minimum using all available engineering techniques. It is, however, impossible to give a percent grade until the road has been aligned to the satisfaction of the surface management agency. We will have grades that are safe and passable under adverse weather conditions and that utilize the existing topography and surface geological conditions.

- 3. Turnouts: Turnouts are not required
- 4. Drainage Design: Prior to construction of the new access road, the brush and topsoil will be windrowed to each side of the alignment outside construction limits. The subgrade surface will be a minimum elevation of one foot above ditch grade. The road surface will be center crowned and the inslopes will have a maximum slope of 3:1 and fill slopes will be a maximum of 2:1.
- 5. Culverts Use, Major Cuts and Fills: Culverts will be placed as needed and suggested by the BLM.

Max: cut - 6' Max: fill - 6'

- 6. Surfacing Material: The proposed permanent access road will be constructed with native material.
- 7. Gates, Cattleguards, Fence Cuts: Not needed.
- 8. New portion of road will be center flagged.

#### III. LOCATION OF EXISTING WELLS

The proposed well is a development well. Exhibit A shows existing wells within a one mile radius.

- A. Water Wells: 0
- B. Abandoned Wells: 1
- C. Temporarily Abandoned Wells: 0
- D. Disposal Wells: 0
- E. Drilling Wells: 4
- F. Producting Wells: See Exhibit A
- G. Shut-In Wells: 0
- H. Injection Wells: 0
- I. Monitoring or Observation Wells: None.

#### IV. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Existing facilities within one mile owned or controlled by Lessee/Operator:
  - 1. Tank batteries 0
  - 2. Production facilities (
  - 3. Oil gathering lines C
  - 4. Gas gathering lines C
  - 5. Injection lines 0
  - 6. Disposal lines -

B. New facilities in the event of production: 1. New facilities: May consist of a well head, condensate tank, production unit, meter house, all of which would remain within the disturbed area. Exhibit B shows our most typical arrangement for this area. 2. Dimensions of the facilities are shown in Exhibit B and 3. Construction will be to strip the topsoil, level drilling pad. Dehydrator pits will be constructed with soil materials native to the site. Construction methods will be employed to assume that no drainage flows are impounded to prevent the loss of any hydrocarbon from the site. to be done in a manner to facilitate rapid recovery and clean up. 4. Protective measures to protect wildlife and livestock: Dehydrator pits shall be overhead flagged should any hydrocarbon material be present on the surface. dehydrator pits shall be fenced to prevent entry of livestock or wildlife. C. Plan for rehabilitation of disturbed areas no longer need for operations after construction completed. Upon completion of well, areas required for continued use will be graded to provide drainage and minimize erosion. not required for continued usage will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with the surrounding topography. Topsoil will be replaced on those areas and seeded according to BLM specifications. V. LOCATION AND TYPE OF WATER SUPPLY The water source is to be from a legal private source. B. Water transportation system: Water to be hauled in trucks from an undetermined pick up point. C. Water wells: None. VI. SOURCE OF CONSTRUCTION MATERIALS A. Materials: Construction materials will consist of soil encountered with the boundaries of the proposed site. Topsoil will be stripped to a depth of six inches and stockpiled in an area that does not interfere with operations. B. Land Ownership: The planned site and access roads lie on Federal land administered by the United States Department of Interior, U. S. Bureau of Land Manaement. -3-

C. Materials foreign to site: N/A D. Access road shown under Exhibit VII. METHODS OF HANDLING WASTE MATERIALS A. Cuttings: Will be contained within the limits of the reserve pit. B. Drilling fluids: Will be retained in the reserve pit. C. Produced fluids: No substantial amount of water is expected. The amount of hydrocarbon that may be produced while treating will be retained in the reserve pit. Prior to clean up operations, the hydrocarbon materials wil be skimmed or removed as the situation would dictate. D. Sewage: Sanitary facilities will consist of at least one chemical toilet and after the completion of operations, the

- sewage will be removed and disposed of elsewhere.
- Garbage: A burn cage will be used to burn all flammable material. The small amount of refuse will be removed from the site and disposed of at a legal and environmentally acceptable location.
- F. Clean up of well site: After drilling, the surface of the drill pad will be cleaned and graded to accommodate a completion rig. The "mouse hole" and "rat hole" will be backfilled to prevent injury and hazard for livestock. Reserve pit will be fenced until dry and it can be backfilled and restored to natural terrain.

#### VIII. ANCILLARY FACILITIES

None required.

#### IX. WELL SITE LAYOUT

- A. See Exhibits 6 and 7
  - 1. Location of pits: 7
  - 2. Rig Orientation:
- B. Pits will be unlined, unless otherwise required.

#### X. PLANS FOR RESTORATION OF SURFACE

- A. Reserve Pit Cleanup: The pit will be fenced prior to rig release and shall be maintained until cleanup. Prior to backfill operation, any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured to prevent impoundment of any drainage flows. The gradient of the surface will be maintained to prevent sudden acceleration of drainage flows which could cause continued erosion of the surface. Following backfill completion, topsoil removed from the disturbed areas will be replaced in a uniform layer. The reserve pit will be seeded per Bureau of Land Management recommendation during the appropriate season following final restoration of the site.
- B. Restoration Plans Production Developed: The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography. Topsoil will be placed on these areas and seeded. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following final improvement and surfacing of that portion of new access road, the topsoil windrowed to each side of the alignment will be placed on the cut slopes. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.
- C. Restoration Plans No Production Developed: Of course the reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored to its natural terrain and reseeded per Bureau of Land Management requirements.

#### XI OTHER INFORMATION

- A. Surface Description:
  - This location is situated on gently rolling hills with a southeasterly drainage. Sandy Soil. Predominant vegetation includes sage brush and native grasses.
- B. Other Surface-Use Activities: The surface is federally owned and managed by the BLM/USGS. The predominant surface use is mineral exploration and production with minimal grazing activity.
- C. Proximity of Water, Dwelling, Historical Sites:
  - 1. Water: none
  - Occupied Dwellings: Not existing.

3. Historical Sites: An archaeological reconnissance has been performed for this location and report is on file with the appropriate USGS/HLM offices.

### XII. OPERATOR'S REPRESENTATIVE

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Charles Jenkins
P. O. Box 3249
Englewood, Colorado 80155
Phone: (303) 740-4800

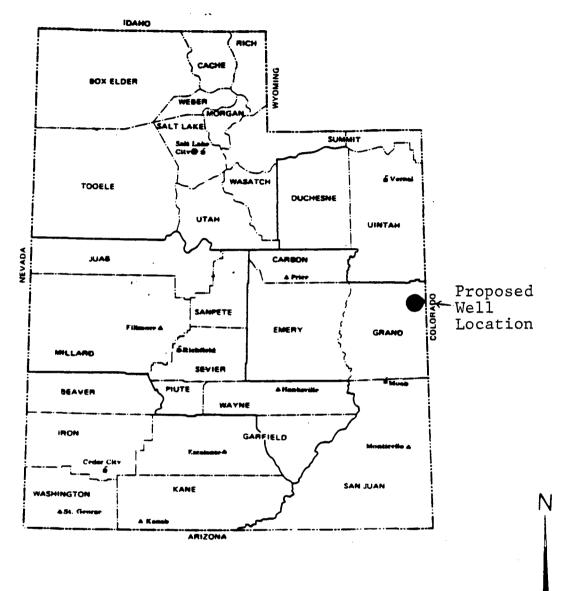
Don H. Morrison
P. O. Box 3249
Englewood, Colorado 80155
Phone (303) 740-4800, ext. 328

#### XIII. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

DATE:	January 18, 1982	Jon of Yorrison
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#### AREA MAP



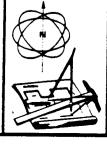
# UTAH

Proposed Tenneco Oil Co. Hays 1-5

NW% Sec. 1, T17S, R25E, SLB&M Grand County, Utah Approx. 20 miles North-Northwest of Mack, Colorado.

#### **LEGEND**

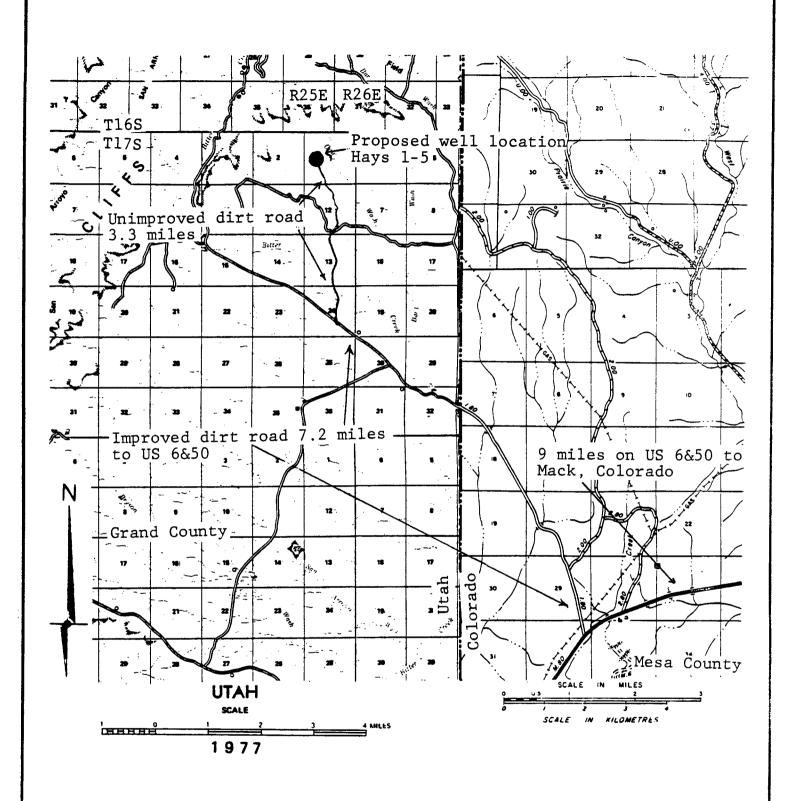
- State Office
- District Office
- ▲ Area Office
- BLM District Boundaries
- --- County Boundaries



ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING . SURVEYING . SOILS AND CONCRETE TESTING 861 ROOD AVENUE - GRAND JUNCTION, COLORADO 81501 - (303) 245-3861

]"=75 Mi ]1/30/81 LWW	Tenneco Oil Hays 1-5	Co.
JRA	FIGURE	JOB NUMBER
11/24/81	FIGURE 2	813692

## EXISTING ROADS



From:
General Hwy Map
Sheet 4
Grand County, Utah
Sheet 1
Mesa County, Colorado
1977



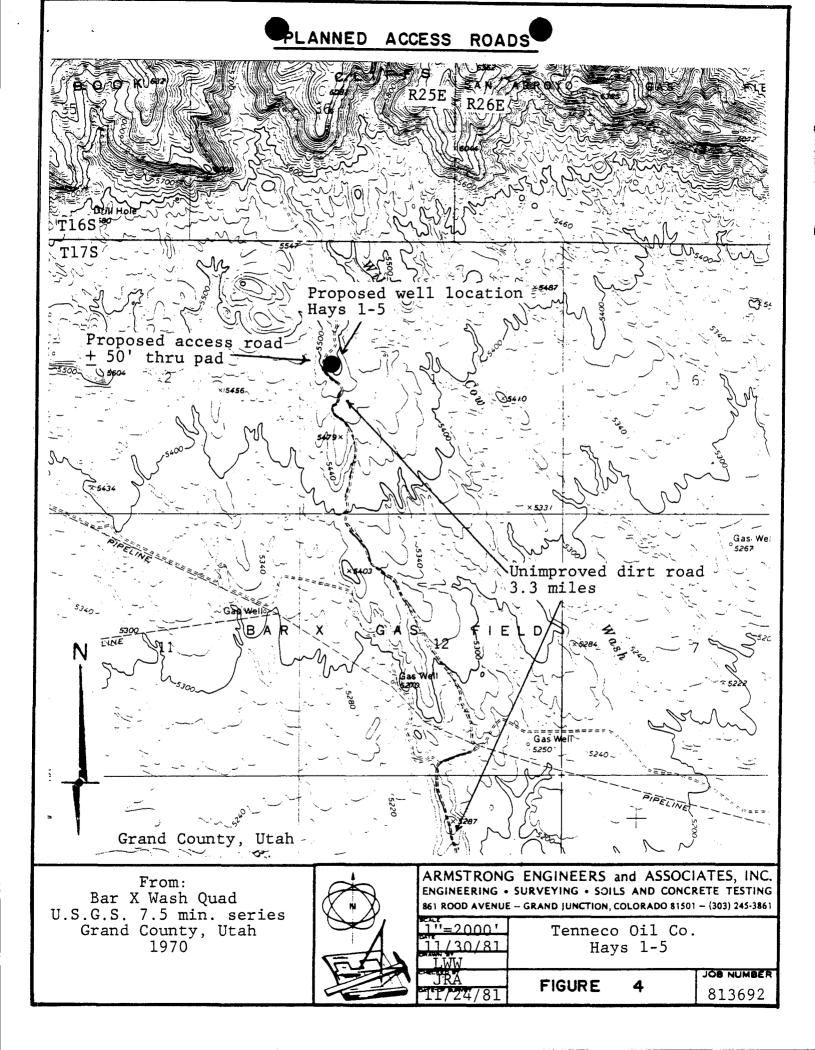
ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 861 ROOD AVENUE — GRAND JUNCTION, COLORADO 81501 — (303) 245-3861

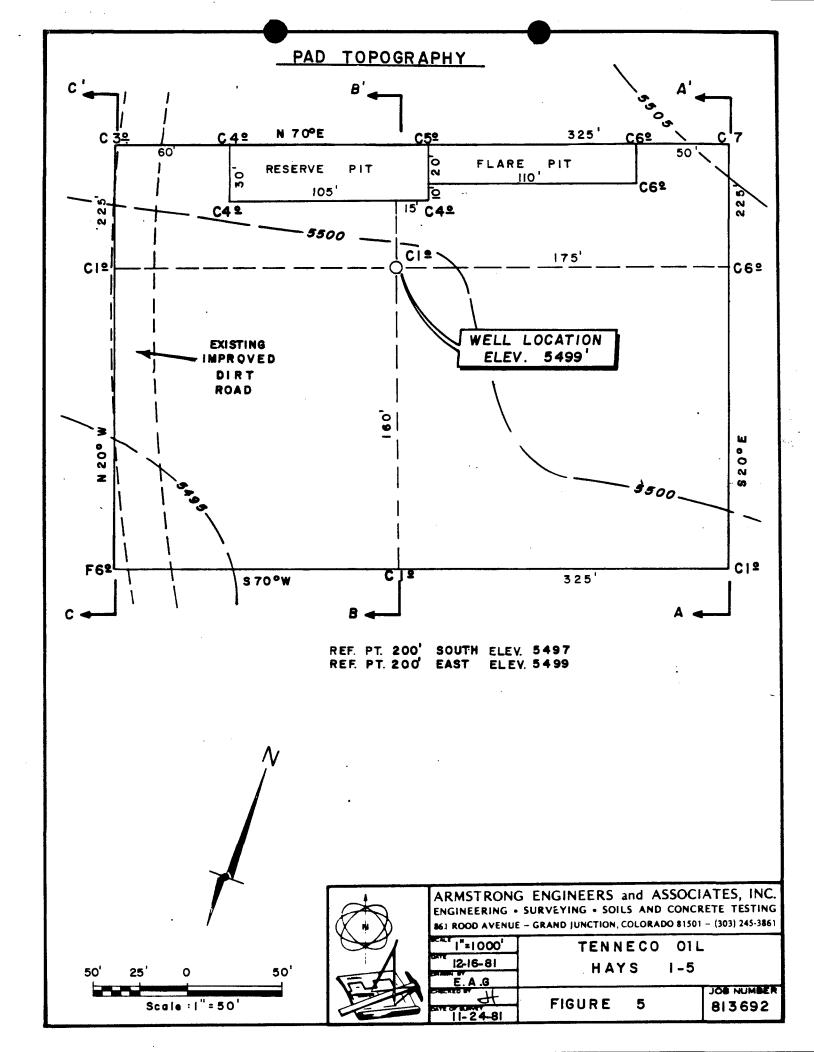
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11/24/81

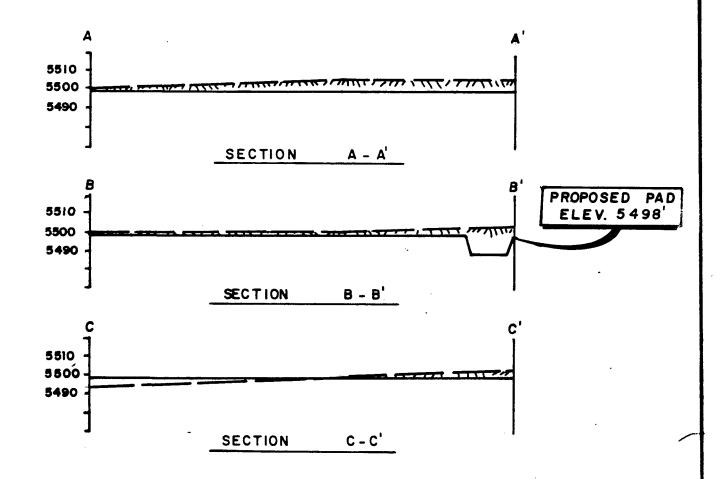
FIGURE

**308 NUMBER** 813692





## CROSS SECTIONS





ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 851 8000 AVENUE — GRAND MINISTRON, COLORADO 81991 — (1981) 245-3461

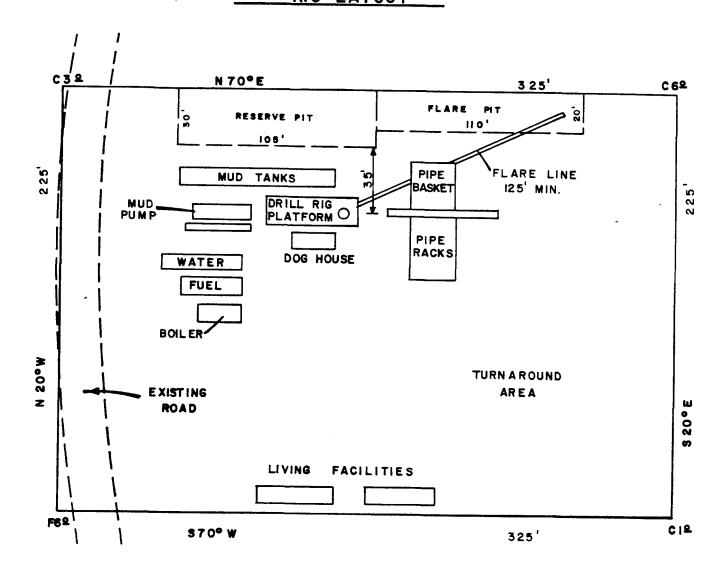
1 = 50 TENNECO OIL 12-16-81 HAYS 1-5

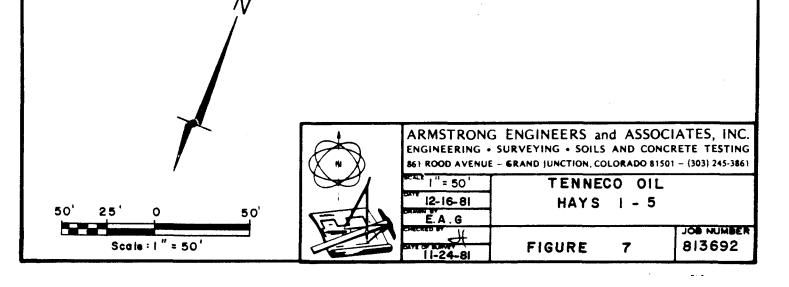
FIGURE

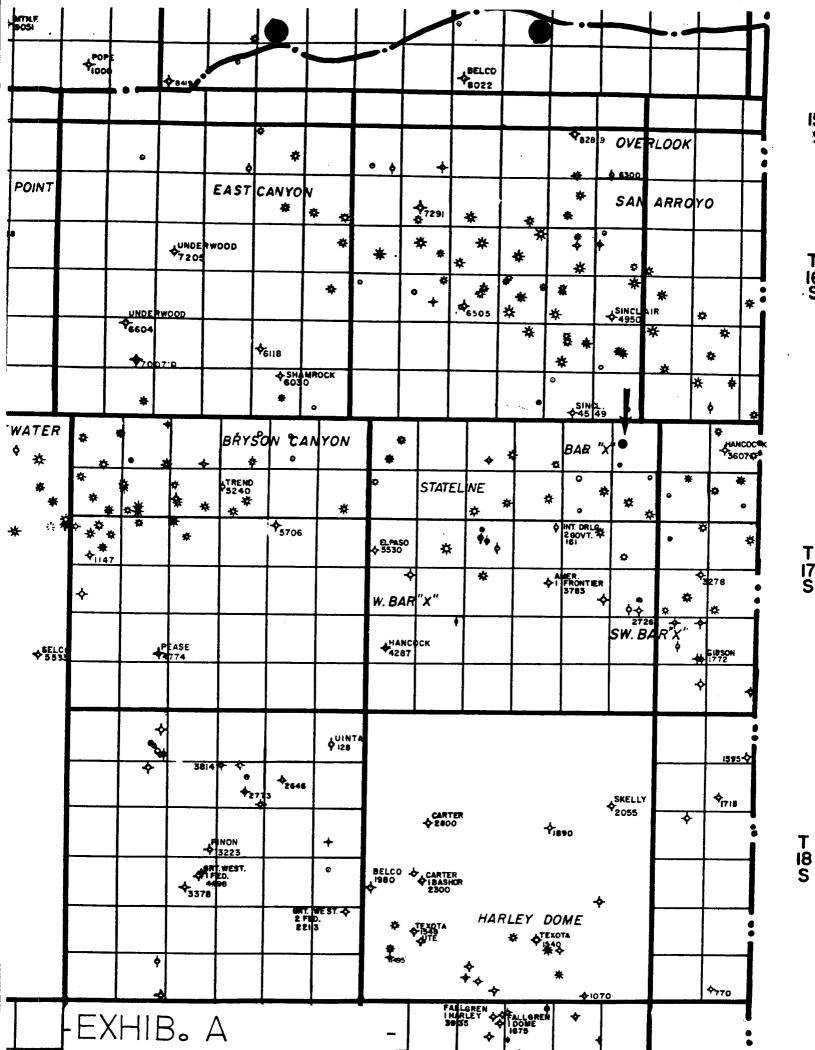
813692

50' 25' 0 50' Scale: | " = 50'

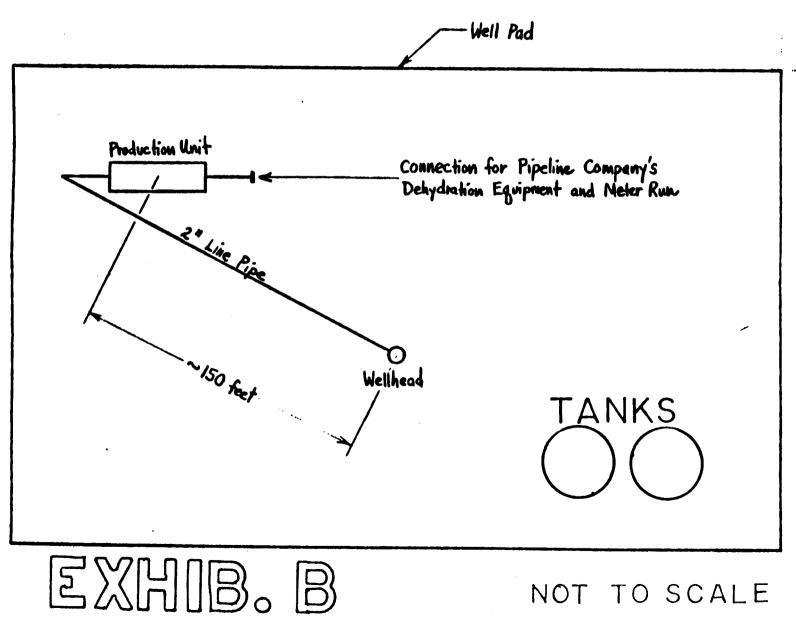
## RIG LAYOUT







# PROBABLE EQUIPMENT INSTALLATION



NOT TO SCALE



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 14, 1982

Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

Attention: Mr. Lee Freeman

RE: Well No. Hays USA #1-5

Sec. 1, T. 17 S, R. 25 E Grand County, Utah API No. 43-019-30941

Dear Sir:

Approval of this office to drill the above reference well at an exception location was granted by our letter of April 6, 1982. This approval was granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

We wish to rescind this previously granted approval and grant approval to drill at the exception location in accordance with the Order issued in Cause No. 4 dated December 5, 1956. This will be the well location for drilling unit No. 4, Zone 1. The previously submitted evidence of topoggraphical and geological constraints for the proposed location will suffice for the requirements of the Order of Cause No. 4.

Sincerely,

DIVISION OF OIL, GAS & MINING

Ronald J. Firth

Chief Petroleum Engineer

RJF/as

# Tenneco Oil **Exploration and Production**

Western Rocky Mountain Division P.O. Box 3249 Englewood, Colorado 80155 (303) 740-4800

Delivery Address: 6061 South Willow Drive Englewood, Colorado

July 26, 1982

Minerals Management Service 2000 Administration Bldg 1745 West 1700 South Salt Lake City, UT 84104

ATTN: Ed Guynn

RE: Tight Hole Status for 1982

Locations

Dear Ed:

Tenneco hereby requests that your office designate the following wells as "tight Hole", as we consider the information from these wells as proprietary;

> Hays USA #1-5 Hays USA #1-2 TOC TXO USA #15-9 TOC TXO POGO USA #15-11

Your cooperation in this matter will be greatly appreciated.

Sincerely yours,

TENNECO OIL COMPANY

Don H. Morrison

Sr. Production Analyst

DHM/dd

cc: \State of Utah - Oil & Gas Conservation

JUL 29 1982

DIVISION OF OIL, GAS & MINING Branch of Fluid Minerals 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

July 12, 1983

Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

Re: Rescind Application for Permit to Drill Well No. Hays 1-5 Section 1, T. 17 S., R. 25 E. Grand County, Utah Lease U-25888

#### Gentlemen:

The Application for Permit to Drill the referenced well was approved on May 21, 1982. Since that date no known activity has transpired at the approved location. Under District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of the well will be rehabilitated. A schedule for this rehabilitation must then be submitted to this office. Your cooperation in this matter is appreciated.

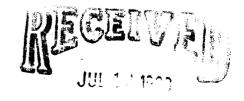
Sincerely,

(ORIG. SGD.) W. P. MARTENS

E. W. Guynn Chief, Branch of Fluid Minerals

bcc: Well File
SMA
State 0&G
State BLM
APD Control

WPM/kr



DIVISION UF GAS & MINING



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

August 18, 1983

Tenneco Oil Company P. O. Box 3249 Englewood, Colorado 80155

> RE: Application for Permit to Drill Well No. Hays 1-5 Sec. 1, T. 17S, R. 25E Grand County, Utah

#### Gentlemen:

Approval of Application for Permit to Drill the above referenced well is rescinded without prejudice as of the above date in concert with action taken by Branch of Fluid Minerals.

If you intend to drill this location at a future date, a new application for permit to drill may be submitted for State approval.

Sincerely,

Norman C. Stout

Administrative Assistant

NS/as